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few paragraphs in the case of each writer setting forth all the necessary facts. Classes which use Mr. Payne's book will dwell upon well-selected portions of each American author's literary work. The text is especially commended for small high schools whose library facilities are limited.

O'NEILL, LAYCOCK, AND SCALES. *Argumentation in Debate*. New York: Macmillan.

FOSTER, WILLIAM TRUFANT. *Argumentation and Debating*. Rev. ed. Boston: Houghton Mifflin Co.

Attractive and greatly improved editions of these two well-known college texts in argumentation have just appeared. The first, originally prepared by two Dartmouth teachers, has been thoroughly rewritten by J. Milton O'Neill, professor of rhetoric and oratory in the University of Wisconsin. Professor O'Neill is thoroughly trained in the law; hence he has given to the chapters which deal with evidence and refutation a practical turn often missing in books on argumentation written by laymen. The second text is revised by the author, President Foster, of Reed College, Portland, Oregon. Fresh and timely illustrations bring the book down to date. Moreover, the Houghton Mifflin Co. has produced a book well-nigh mechanically perfect in form and appearance.

II. BOOKNOTES AND REVIEWS

SANDESON, E. D., AND PEAIRS, L. M. *School Entomology—An Elementary Textbook of Entomology for Secondary Schools and Agricultural Short Courses*. New York: John Wiley & Sons, 1917. Cloth. Pp. vii+356, 253 figures. \$1.50 net.

This book is composed of two parts, the first dealing with the general aspects of the subject and the second with the economic aspects. Part I aims to present the subject so that it can be covered in the time that the schools may reasonably be expected to give to it. Part II purposes to give as concise an idea of the more common injurious forms of insect life as is possible in a limited space. There are thirteen chapters in the first part and six in the second.

It is likely that Part I, "Economic Entomology," will be of most interest and value to those for whom the work is designed. It contains a chapter each on the following subjects: "Insects Affecting Man and Domestic Animals," "Insects Affecting Household Goods and Stored Food Products," "Field Crop Insects," "Garden Insects, Orchard Insects, and Insect Control." This part also contains an appendix in which are listed the publications on injurious insects, which may be secured free of charge from the Secretary of Agriculture or from the several state agricultural experiment stations, the addresses of which are given.

The book is one of the "Wiley Technical Series" for vocational and industrial schools. It should prove a valuable reference work for classes in general science and in agriculture in schools which do not attempt to give a separate course in entomology.

DAVIS, K. C. *Productive Plant Husbandry—A Textbook for High Schools*. Philadelphia: J. B. Lippincott Co. 8vo, pp. 462, 312 illustrations. \$1.75 net.

Professor Davis' first volume in the new "Farm Life Text Series," to be published by the J. B. Lippincott Company, is certain to meet with favor among the high-school teachers of agriculture the country over. The book is written particularly for school use and is to be covered during one school year.

The author starts out by giving the principles of plant growth and breeding, for the comprehension of which a preliminary study of botany is unnecessary, and follows this with a discussion of seeds and propagation. After this introductory material come five chapters on the general subjects of "Soils and Their Uses," "Water and Soils," "Conservation and Improvement of Soils," "Drainage and Irrigation," and "Crop Rotation." Following these are fifteen chapters devoted to the specific crops, viz.: "Grasses," "Leguminous Crops," "Corn," "Small Grains," "Potatoes," "Sugar Beets and Other Roots," "Vegetables," "Cotton," "Minor Fiber Crops," "Sugar Cane," "Fruits, Large and Small," "Forest Products," and "Tobacco." The concluding chapters deal with "Weeds," "Economic Insects," "Plant Diseases," "Methods of Controlling Insects and Plant Diseases," "The Business of Farming," and "The Rural Community."

From the standpoint of its pedagogical merits the book is rather superior. To each chapter there is added "Field and Laboratory Exercises" as well as "Questions and Problems." There are also copious references for further study. The illustrations are numerous and clear and really illustrate the text. Teachers interested in texts in agriculture providing material for a one-year course will do well to examine Professor Davis' book with some care before they select a text for their course.

TOWERS, W. K. *Masters of Space*. New York: Harper & Brothers, 1917. Pp. 301. \$1.25.

The masters receiving chief consideration in this book are Morse, Thompson, Bell, Marconi, and Carty. More than a mere bibliography of these individuals is given. In fact, the work is the story of talking at distance, of sending messages through space. The following quotation from the Preface is an excellent summary of the contents of the book:

The story opens with the primitive methods of message-sending by fire or smoke or other signals. The life and experiments of Morse are then pictured and the dramatic story of the invention and development of the telegraph is set forth. The submarine cable followed with the struggles of Field, the business executive, and Thompson, the